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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force **Date:** February 2018

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0208099F <i>I Unified Platform (UP)</i>							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	29.800	0.000	29.800	10.000	6.000	0.000	0.000	Continuing	Continuing
646504: <i>AF Prototyping</i>	-	0.000	0.000	19.800	0.000	19.800	5.000	3.000	0.000	0.000	Continuing	Continuing
646505: <i>USCYBERCOM Prototyping</i>	-	0.000	0.000	10.000	0.000	10.000	5.000	3.000	0.000	0.000	Continuing	Continuing

Note

In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.

A. Mission Description and Budget Item Justification

Designated as the Executive Agent, the Secretary of the Air Force will lead the Unified Platform effort.

Unified Platform (UP) provides the Cyber Mission Forces (CMFs), USCYBERCOM, AF Major Commands (MAJCOMs) a Joint cyber operations platform capable of mission planning, data analytics, and decision support for the execution of full-spectrum cyberspace operations at the operational through tactical levels of warfare.

UP integrates existing, but disparate, Service-specific cyber capability, delivering a minimum viable product (MVP). Subsequent build iterations will continue to deliver a flexible, interoperable, and scalable warfighter capability. In order to match the speed-of-need of the highly dynamic cyberspace domain, the UP will implement a scaled agile development framework to facilitate the rapid development, integration, and fielding of capabilities. The UP program will execute the development requirements provided by Army, Navy, Marine Corps, and Air Force in conjunction with US Cyber Command (USCYBERCOM) stakeholders in accordance with the prioritization provided by UP governance. The UP program will exercise a comprehensive, Service agnostic, acquisition approach to include laboratory, industry, and academia.

UP directly supports the Joint Network Attack Initial Capabilities Document (ICD), the National Military Strategy for Cyberspace Operations (NMS-CO), USCYBERCOM operational directives, the latest AF Space Command (AFSPC) Offensive Cyberspace Operations System Flight Plan, and other formal requirements documents.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver JCC2 weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, and 0605898F.

Prototyping efforts are executed in a operational development environment to rapidly develop and evaluate capability within relevant warfighter timelines. Prototyping efforts are transitioned to foundational efforts once included in the UP baseline.

This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because this budget activity includes efforts that are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0208099F <i>I Unified Platform (UP)</i>
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B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	29.800	0.000	29.800
Total Adjustments	0.000	0.000	29.800	0.000	29.800
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	29.800	0.000	29.800

Change Summary Explanation

In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>				Project (Number/Name) 646504 / <i>AF Prototyping</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
646504: <i>AF Prototyping</i>	-	0.000	0.000	19.800	0.000	19.800	5.000	3.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.

A. Mission Description and Budget Item Justification

USAF within this budget item will focus on rapid research through prototype development, risk reduction, testing, and integration of cyber capabilities contributing to the Unified Platform (UP) program, while delivering enhanced cyber effects to the Combatant Commanders. USAF, in conjunction with the Services and National Agencies, execute operationally-focused research and developmental to expand infrastructure, architectures, and capabilities/tools to support Cyber Mission Forces (CMF); these efforts will be tailored for near-immediate integration into the UP baseline for delivery to cyber warfighters using scaled agile framework acquisition methodologies.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver JCC2 weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, and 0605898F.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019
Title: AF Prototyping	-	0.000	19.800
Description: AF prototyping efforts will initially develop the UP Minimum Viable Product (MVP) baseline from existing "best of breed" systems, completed prototyping efforts, existing Service-developed solutions, joint user-input, and other sources. Scaled The program will use a scaled agile framework to execute the MVP buildup and future increments to continuously deliver operational capability based on prioritized user requirements.			
FY 2018 Plans: Efforts reflected in PE 0306250F, Cyber Operations Technology Development.			
FY 2019 Plans: - Will develop incremental operational capability addressing the highest priority user requirements - Some aspects of the effort are classified and will be provided on a need-to-know basis. For further information, please contact AFLCMC/HNCP, 210-977-2683.			
FY 2018 to FY 2019 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force		Date: February 2018	
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>	Project (Number/Name) 646504 / <i>AF Prototyping</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.			
Accomplishments/Planned Programs Subtotals		-	0.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Unified Platform (UP) program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to agile acquisition planning. All plans will contain sufficient information to inform acquisition decisions (i.e., authorities to proceed), within the agile framework, to determine readiness to enter into the applicable phase of the acquisition process. UP will utilize both new and existing contractual vehicles, such as Government-Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules and a new Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that should be able to meet many requirements related to UP. These multiple-award contractual vehicles have already met the statutory requirements of the Competition in Contracting Act (CICA), which requires a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.			
E. Performance Metrics			
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force												Date: February 2018			
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0208099F / Unified Platform (UP)				Project (Number/Name) 646504 / AF Prototyping					
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Service Oriented Architecture (SOA) Prototyping	C/T&M	TBD : TBD	-	-		-		7.000	Oct 2018	-		7.000	Continuing	Continuing	-
Minimum Viable Product (MVP) Build-Up	Various	Various : Various	-	-		-		12.000	Oct 2018	-		12.000	Continuing	Continuing	-
Subtotal			-	-		-		19.000		-		19.000	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Support Costs	Various	Various : Various	-	-		-		0.800	Dec 2018	-		0.800	Continuing	Continuing	-
Subtotal			-	-		-		0.800		-		0.800	Continuing	Continuing	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		0.000		19.800		-		19.800	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force										Date: February 2018			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
3600 / 4					PE 0208099F / Unified Platform (UP)					646504 / AF Prototyping			

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AF Prototyping																												
SOA Prototyping																												
MVP Build-Up																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>	Project (Number/Name) 646504 / <i>AF Prototyping</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>AF Prototyping</i>				
SOA Prototyping	1	2019	2	2019
MVP Build-Up	1	2019	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force										Date: February 2018		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>				Project (Number/Name) 646505 / <i>USCYBERCOM Prototyping</i>			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
646505: <i>USCYBERCOM Prototyping</i>	-	0.000	0.000	10.000	0.000	10.000	5.000	3.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.

A. Mission Description and Budget Item Justification

US Cyber Command (USCYBERCOM) mission is to deter or defeat strategic cyber threats to US interests and infrastructure, provide mission assurance for the operations and defense of the Department of Defense information environment, and support the achievement of Joint Force Commander objectives.

USCYBERCOM within this budget item will focus on rapid research through prototype development, risk reduction, testing, and integration of cyber capabilities contributing to the Unified Platform (UP) program, while delivering enhanced cyber effects to the Combatant Commanders. USCYBERCOM, in conjunction with the Services and National Agencies, execute operationally-focused research and developmental to expand infrastructure, architectures, and capabilities/tools to support Cyber Mission Forces (CMF); these efforts will be tailored for near-immediate integration into the UP baseline for delivery to cyber warfighters using scaled agile framework acquisition methodologies.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019
Title: USCYBERCOM Prototyping	-	0.000	10.000
Description: Funding supports USCYBERCOM prototyping efforts associated with the research, development, and integration of cyber technologies supporting the UP program.			
FY 2018 Plans: Efforts reflected in PE 0306250F, Cyber Operations Technology Development.			
FY 2019 Plans: Will conduct prototyping efforts in support of UP program.			
The origin, details, and specific aspects of these efforts are classified and will be provided on a need-to-know basis. Please contact USCYBERCOM,443-634-7769, for additional details.			
FY 2018 to FY 2019 Increase/Decrease Statement:			

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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>	Project (Number/Name) 646505 / <i>USCYBERCOM Prototyping</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
In FY19, PE 0208099F, Unified Platform (UP) efforts were transferred from PE 0306250F, Cyber Operations Technology Development to enable Executive Agent oversight and management, and to provide transparency to Service stakeholders.			
Accomplishments/Planned Programs Subtotals		-	10.000
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Unified Platform (UP) program office will utilize Concept, Development, Risk Management, Production, or Deployment Plans as part of a streamlined approach to agile acquisition planning. All plans will contain sufficient information to inform acquisition decisions (i.e., authorities to proceed), within the agile framework, to determine readiness to enter into the applicable phase of the acquisition process. UP will utilize both new and existing contractual vehicles, such as Government-Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules and a new Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that should be able to meet many requirements related to UP. These multiple-award contractual vehicles have already met the statutory requirements of the Competition in Contracting Act (CICA), which requires a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.			
E. Performance Metrics			
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force													Date: February 2018		
Appropriation/Budget Activity 3600 / 4						R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>				Project (Number/Name) 646505 / <i>USCYBERCOM Prototyping</i>					

Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
USCYBERCOM Prototyping	Various	Multiple Agencies : Various	-	-		-		9.600	Oct 2018	-		9.600	Continuing	Continuing	-
Subtotal			-	-		-		9.600		-		9.600	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Support Costs	Various	Various : Various	-	-		-		0.400	Dec 2018	-		0.400	Continuing	Continuing	-
Subtotal			-	-		-		0.400		-		0.400	Continuing	Continuing	N/A

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-	0.000	10.000	-	10.000	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force

Date: February 2018

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0208099F / Unified Platform (UP)

Project (Number/Name)
646505 / USCYBERCOM Prototyping

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
USCYBERCOM Prototyping																												
USCYBERCOM Prototyping																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0208099F / Unified Platform (UP)	Project (Number/Name) 646505 / USCYBERCOM Prototyping	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
USCYBERCOM Prototyping				
USCYBERCOM Prototyping	1	2019	4	2021